

~~CONFIDENTIAL~~

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 EXT BYND 6 YRS BY SAMC  
 REASON 3 & (3)

PROGRESS REPORT  
 FOR  
 MONTH OF OCTOBER 1958

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### BROADBAND ANTENNAS, FILTERS AND DETECTORS

**Purpose:** To determine the ~~feasibility~~ of developing a broadband system for the 50 mc to 40 kmc frequency range.

**Personnel:** Electrical Engineers:

**Status:** Evaluation of the low and high freq. cut off characteristics of LP antennas is continuing. Difficulties encountered with LP antennas printed on dielectric board have been resolved and when accurately made printed antennas are received from the photo lab, it is felt that good quantitative information can be acquired.

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Evaluation of the low frequency characteristics of the 50 to 500 mc antenna with Systems is proving to be quite difficult because of the high noise level in the area. Work is continuing on this phase and some useful information will be forthcoming.

No information on the required cut off characteristics has been received from the customer. This information will be necessary before final evaluation can take place.

**Future Plans:** All work on high and low pass characteristics will be wound up and recommendations will be made.

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